

CLAIMS

1. A radio control transmitter that generates and transmits a control signal controlling a travelling direction of a toy vehicle, comprising:
 - a supporter provided with a bearing section which is spherically recessed at the upper part;
 - a lower case wherein the supporter protrudes through an inner center base;
 - an opening section of an upper case formed at the center wherein the supporter penetrates through;
 - a substrate positioned inside the lower case and perpendicular to the supporter; and
 - a plurality of switches which are fixed around a substrate opening section opened on the substrate, and which determine the travelling direction of the toy vehicle; and
 - a control shaft which maintains a plurality of pressing sections positioned on each of the switches, comprising a spherical end axis section which is rotably fixed to the bearing section at the lower part of the control shaft.
2. The radio control transmitter according to claim 1, wherein each pressing section corresponds to the plurality of switches, and is held by the other end of an elastic section that hangs down to an edge part of a rib which surrounds the center of the control shaft, and each pressing body is positioned in a downward direction by preparing a pre-determined space between each pressing body and the top part of the switch.
3. The radio control transmitter according to any one of claims 1 and 2 wherein the rib installs a lead axis being inscribed to each elastic section and extending downwardly.
4. The radio control transmitter according to any one of claims 1, 2 and 3 wherein the elastic section is a combination of the rib and an U-shaped spring.
5. The radio control transmitter according to any one of claims 1, 2, 3 and 4 wherein the opening section on the substrate comprises a circular section on the same axis as the control shaft, and grooves extending out

from the control shaft towards the direction of the switches.

6. The radio control transmitter according to any one of claims 1, 2, 3, 4 and 5 wherein the switches are positioned on the substrate in line symmetry including the control shaft.

7. The radio control transmitter according to any one of claims 1, 2, 3, 4, 5 and 6 wherein the switches are positioned on the substrate in point symmetry with respect to the control shaft.

8. The radio control transmitter according to any one of claims 1, 2, 3, 4, 5, 6 and 7, wherein the control signal is transmitted at a very high frequency or by being multiplexed into an infrared ray.

9. The radio control transmitter according to any one of claims 1, 2, 3, 4, 5, 6, 7 and 8, wherein the switch has a lighting section that flashes if the switch is serially connected to the lightning section and selected.

10. The radio control transmitter according to any one of claims 1, 2, 3, 4, 5, 6, 7, 8 and 9 wherein the toy vehicle installs a battery as a built-in power source and a chargeable connector terminal which is connected to the battery, that comprises a chargeable connector terminal connected to the built-in power source of a radio receiver and connectable to the chargeable connector terminal installed inside the toy vehicle.